# GOVERNMENT OF INDIA
# SPACE
# LOK SABHA

STARRED QUESTION NO:288
ANSWERED ON:22.03.2017
Private Sector Participation in Space Programmes
Rathore Shri Hariom Singh

**Will the Minister of SPACE be pleased to state:**

(a) whether the Government has drawn any long term perspective plan for various facets of Space research and if so, the main features thereof;
(b) the funds currently employed and proposed for future expeditions; and
(c) whether the Government has formulated a policy for supporting the overall growth of Space activities with increased level of private sector participation and if so, the details thereof?

## Answer

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

(a) to (c) A Statement is laid on the Table of the House.

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STATEMENT LAID ON THE TABLE OF THE LOK SABHA IN REPLY TO STARRED QUESTION NO.288 REGARDING "PRIVATE SECTOR PARTICIPATION IN SPACE PROGRAMMES" ASKED BY SHRI HARIOM SINGH RATHORE FOR ANSWER ON WEDNESDAY, MARCH 22, 2017.

(a) Yes Madam. Department of Space has drawn a long term perspective plan, addressing various facets of Indian space programme that are at different stages of discussions, viz., Space Transportation Systems, Space Infrastructure, Space Applications and Capacity Building. The salient features of this plan include − (i) Development of Advance Launch Vehicle systems with increased payload capability and efforts to increase reusability for ensuring low cost access to Space, ii) Realization of high-throughput communication and dedicated broadcasting satellites to increase the available transponder capacity, iii) Advanced earth Observation Satellites with capabilities of high resolution, all-weather and near-real-time imaging, iv) Continuity of services with regard to Satellite Navigation & GAGAN systems, v) Advanced satellites for weather/ meteorological services, vi) Undertaking Space Science Missions for study of Sun, Moon and other planets, vii) Space applications towards enabling socio-economic security, sustainable development, disaster risk reduction and governance including citizen centric services and viii) Capacity building to perform functions & processes for realisation of goals & establishment of infrastructure for increased throughput.

(b) The allocation for the year 2017-18 is ` 9,093.71 crores. The future fund requirements will be worked out based on finalized plan

(c) Considering the enhanced national requirements for space based services, ISRO is making focused efforts, through appropriate transfer of technology and hand-holding, to enhance participation of Indian industries for manufacturing of space related hardware such as rocket engine & stages, propellant tanks, spacecraft structures, solar panels, thermal control systems, electronic packages etc., required for satellites and launch vehicles.

ISRO has been utilizing the Indian Industry for manufacturing and production of various components and sub-assemblies, required for development of space technology for more than 2 decades. ISRO is also looking into possibilities of adopting Government Owned Contractor Operated (GOCO) model for potential Industry involvement for larger participation in the Space Program. In order to step up the launch capacity within the country, ISRO is further exploring the possibility of engaging Indian industry in a greater role towards productionization of integrated systems/ subsystems, including assembly and testing by vendors as per ISRO's design. Towards this, discussions are being held with the Indian industry towards formulating a plan & strategy to enhance the capacity and capability of managing the Polar Satellite Launch Vehicle (PSLV) programme on an end to end basis. ISRO is involving a consortium of 6 industries for Assembly, Integration and Testing (AIT) of two similar satellites, wherein the sub-systems and infrastructure is being provided by ISRO. The AIT of the first satellite will be carried out by a joint team of ISRO & Industry and of the second satellite by industry team independently. The AIT activities are planned to be realized with respect to a navigation satellite 'IRNSS-1H' of Navigation with Indian Constellation (NavIC) constellation.

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